PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference NO 7403/WO/PCT				FOR FURTHER A	CTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)			
			International filing date 09.09.2003	day/mon	h/year)	Priority date (day/month/year) 10.09.2002				
	nation		ent Classification (IPC) o	 or both national classification	and IPC					
	icant STEC	S.A	. et al.							
1.				xamination report has be the applicant according to			International Preliminary Examining			
2.	This	REP	ORT consists of a total	al of 6 sheets, including	this cove	sheet.				
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).									
	These annexes consist of a total of sheets.									
3.	This	repo	rt contains indications	relating to the following	items:					
	1	\boxtimes	Basis of the opinion							
	H		Priority							
•	Ш		Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
IV 🗵 Lack of unity of invention		•								
V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive so citations and explanations supporting such statement				r, inventive step or industrial applicability;						
	VI		Certain documents	cited						
	VII		Certain defects in th	ne international application	n		• •			
	VIII		Certain observation	s on the international app	plication					
Date	Date of submission of the demand					completion	of this report			
19.0	19.01.2004					2005				
Namo	Name and mailing address of the international preliminary examining authority:					zed Officer	.ches Palanta_			
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				3656 epmu d	Popa,		89 2399-7829			

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International application No.

PCT/EP 03/09999

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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages						
	1-1	8	as originally filed				
	Cla	ims, Numbers					
	1-8	•	on existing the filed				
	1-0		as originally filed				
2.	Wit lanç	h regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.				
	The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
	rnational application in written form.						
☐ filed together with the international application in computer readable form.							
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequer	ntly to this Authority in computer readable form.				
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclesing the international application as filed has been furnished.						
The statement that the information recorded in computer readable form is identical to the written listing has been furnished.							
4. The amendments have resulted in the cancellation of:							
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
	neet containing such amendments must be referred to under item 1 and annexed to this						
6.	Additional observations, if necessary:						

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IV		Lack	of	unity	of in	vention
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1.	In r	response to the invitation to restrict or pay additional fees, the applicant has:							
		restricted the claims.							
		paid additional fees.							
		paid additional fees under pro	test.						
		neither restricted nor paid add	litional	fees.					
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.							
 This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, is 					of invention in accordance with Rules 13.1, 13.2 and 13.3				
		complied with.							
		not complied with for the follow	ving re	easons:					
4.	 Consequently, the following parts of the international application were the subject of international preliminar examination in establishing this report: 								
		all parts.							
	\boxtimes	the parts relating to claims No	s. 1-5						
V.	Rea cita	asoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; ations and explanations supporting such statement							
1.	Stat	tement							
	Nov	relty (N)	Yes: No:	Claims Claims	4,5 1-3				
	Inve	entive step (IS)	Yes: No:	Claims Claims	4,5				
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-5				
2.	Cita	tions and explanations							

see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: US-B1-6 248 390 (STILLMAN SUZANNE JAFFE) 19 June 2001
 - **D2**: NINESS K.R.: 'Inulin and Oligofructose: What are They?' THE JOURNAL OF NUTRITION, vol. 129, no. 7 Suppl., July 1999, pages 1402S-1406S, XP002230319
 - D3: ROBERFROID M.B., DELZENE N.M.: 'Dietary fructans' ANNUAL REVIEW OF NUTRITION, ANNUAL REVIEWS INC., PALO ALTO, CA, US, vol. 18, 1998, pages 117-143, XP002123057 ISSN: 0199-9885
 - **D4**: BERRY D.: 'Hiding Healthful Ingredients' FOOD PRODUCT DESIGN, [Online] May 2002 (2002-05), XP002230318
 - D5: US-A-5 660 872 (BOOTEN KARL ET AL) 26 August 1997
 - **D6**: PATENT ABSTRACTS OF JAPAN vol. 2000, no. 09, 13 October 2000 & JP 2000 157233 A (NARITA TOMOTAKA), 13 June 2000
 - D7: US-A-4 978 751 (BITON JACQUES ET AL) 18 December 1990
 - D8: US-A-6 004 610 (TROUP JOHN P ET AL) 21 December 1999
- 2. This application covers 2 distinct inventions. As only the first invention (claims 1-5) has been subject to a search report, this examination report concerns only the aforementioned claims. This invention also seems to represent the main invention, in the sense of Art. 34(3)(c) PCT.
- 3. This application has been found to have deficiencies that contravene the PCT requirements.
- 3.1. Shelf-stable in claim 1 is regarded to be merely a descriptive feature as it cannot have a technical character in the sense used in this application. Moreover, since the term of shelf-stable can be used to describe different types of parameters (microbiologic, functional, organoleptic, physico-chemical), the presence of such a feature in the claims can lead to unclarities concerning the scope of the claims.

The same applies to *clear*.

3.2. Substantially and about are vague features that cannot be used to distinguish the alleged invention from the prior art provided the other features are simultaneously present. The affected claims are 1, 4 and 5.

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- 3.3. Therefore, the claims were analysed with the features mentioned above (§3.1-3.2) being excised from the claims. This removal was made solely for the purpose of examination and not as an amendment or correction (Rule 66.8(a) PCT).
- 4. Present application does not meet the requirement of Art. 33(1) PCT because the subject-matter of all examined claims is not new in the sense of Art. 33(2) and/or does not involve an inventive step in the sense of Art. 33(3) PCT.
- **4.1.** Document **D1** discloses (the references in parentheses applying to this document) a shelf-stable (see §3.1), essentially tasteless and odourless water-like composition (c. 6 l. 7-31; c. 7 l. 17-33) comprising oligosaccharides in form of starch hydrolysates or oligofructans (c. 5 l. 8-25) and water low in minerals (c. 5 l. 8-25), i.e. containing less than 500 mg/l dissolved salts. Said oligofructans inherited the $\beta(2-1)$ bonds of inulin and **D2** (p. 1402S) and **D3** (Table 1) confirms the value of DP of inulin and FOS.

D1's composition contains between 0.1 and 10% of said fibres.

There is no reason to believe the prior art composition deviates from a neutral pH (especially when the limits describing such a pH are largely stated in this application).

As a consequence, claims 1-3 do not meet the requirements of Art. 33(2) PCT for lack of novelty in their subject-matter.

- 5. This application does not meet the requirements of Art. 33(1) PCT because the subject-matter of claims 4 and 5 does not involve an inventive step in the sense of Art. 33(3) PCT.
- 5.1. D4 is considered to be the closest prior art document regarding the independent claim 4. D4 discloses one potential use of inulin and FOS: taste modifiers (i.e. overall taste improving). D4 says (chapter Inulin improves overall taste) that the short chain fructans interact with the taste buds and this behaviour modifies the taste perception. For this reason, FOS and inulin have been already employed in different beverages (masking off-flavours).

The difference between the disclosure of **D4** and the alleged invention of claim 4 consists in the carrier: neutral pH and demineralised water vs. beverages comprising different other ingredients. Thus, the objective problem to be solved can be formulated as how can one apply the taste modification teachings to a different carrier.

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Such carriers have been already used in **D1** (see **§4.1**) in combination with FOS and/or inulin to produce a water-like composition that shows, implicitly, a slight rise of sweetness. Furthermore, D4 prompts a person skilled in the art to use inulin/FOS in beverages for masking the aftertaste and/or off-flavours (i.e. for modifying the perception of several fundamental tastes).

Such a change comes within the scope of the customary practice followed by the skilled persons, especially as the advantages thus achieved can be readily contemplated in advance.

The same reasoning equally applies for the independent claim 5.

As consequence, the subject-matter of the independent claims 4 and 5 lacks an inventive step in the sense of Art 33(3) PCT.